

Notice of Allowability

Application No.

09/606,807

Examiner

Qi Han

Applicant(s)

LEE ET AL.

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 07/18/2006.
2. ☒ The allowed claim(s) is/are 9-25,33-46,49 and 50.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 4/25/06&7/18/06
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Information Disclosure Statement

1. The references listed in the Information Disclosure Statement submitted on 04/25/2006 and 07/18/2006 have been considered by the examiner (see attached PTO-1449).

Response to Amendment

2. This communication is responsive to the applicant's amendment dated 07/18/2006. The applicant(s) amended claims 9, 14, 23, 33, 42 and 50 (see the amendment: pages 2-12), and cancelled claims 31-32 (see the examiner's amendment below) .

The examiner withdraws the rejection of claims 9-13 and 31-32 under 35 USC 112 1st, because the applicant amended and/or cancelled the claims.

The examiner withdraws the rejection of claims 9-25, 31-46 and 49-50 under 35 USC 112 2nd, because the applicant explained and clarified the rejected limitation, which is persuasive (see the amendment: the bridge paragraph between page 13-14), and cancelled the certain claims.

The examiner withdraws the claim rejection under 35 USC 102/103, because the applicant amended, clarified and/or cancelled the claims (see the amendment: paged 2-15 and the examiner's amendment below).

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

Art Unit: 2626

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given by the applicant representative, William, J. Breen, III, through a telephone interview on 09/28/2006. The Examiner's Amendment is as following:

In the claims (refer to the amendment filed on 07/18/2006):

Regarding **claim 31**, on page 6, cancel this claim.

Regarding **claim 32**, on page 7, cancel this claim.

-----End of Examiner's Amendment-----

Allowable Subject Matter

4. Claims 9-25, 33-46 and 49-50 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent **claims 9 and 50**, the instant application is directed to method, computer-readable media for inputting and processing mixed text of two different languages. Each of the independent claims, combining certain well known features in the art, identifies the uniquely distinct features of:

segmenting the input string into probable typing candidates having different partitions; generating (or determining) one or more candidate strings of language text for each said language using one or more said probable typing candidates; and determining at least one said

Art Unit: 2626

candidate string that may be used to replace the input string based on a probability of how likely the at least one said candidate string was incorrectly entered as the input string.

Regarding independent **claims 14, 22 and 33**, the instant application is directed to method, computer-readable media and language input architecture (apparatus) for inputting and processing mixed text of two different languages. Each of the independent claims, combining certain well known features in the art, identifies the uniquely distinct features of:

segmenting the input string into probable typing candidates having different partitions; determining at least one first candidate string that may be used to replace the input string based on a probability of how likely the first at least candidate string was incorrectly entered as the input string in the first language; determining at least one second candidate string that may be used to replace the input string based on a probability of how likely the second at least candidate string was incorrectly entered as the input string in the second language; using the candidate having higher probability between the two candidates as output.

Regarding independent **claims 23, 42 and 49**, the instant application is directed to method, computer-readable media and language input architecture (apparatus) for inputting and processing mixed text of two different languages. Each of the independent claims, combining certain well known features in the art, identifies the uniquely distinct features of:

segmenting the input string into probable typing candidates having different partitions; determining probable candidate strings, from the probable typing candidates, in at least one of the first and second language that may be used to replace the input string based on probabilities of how likely each of candidate strings was incorrectly entered as the input string; selectively

Art Unit: 2626

performing, based on the probabilities, one of (1) covering the input string into an output string in the first language, or (2) outputting the input string in the second language (not conversion).

5. The prior art of record, Chen (US 6,073,146) and Mukaigawa et al. (US 6,246,976 B1), provided numerous teachings and approaches for inputting (entering) text in one or more languages for computer system, including using mixed text in Chinese and non Chinese words, converting phonetic Chinese input into Hanzi (Chinese characters), providing diacritic information, matching dictionary, handling ambiguous translation/conversion, using statistical model, providing graphical interface, selecting candidates for manual correction; identifying a language, using occurrence probability table and providing multilingual analysis and translation. However, the combined features stated above, are not anticipated by, nor made obvious over the prior art of the record.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Please address mail to be delivered by the United States Postal Service (USPS) as follows:

Mail Stop _____
Commissioner for Patents

Art Unit: 2626

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or faxed to: 571-273-8300, (for formal communications intended for entry)

Or: 571-273-8300, (for informal or draft communications, and please label "PROPOSED" or "DRAFT")

If no Mail Stop is indicated below, the line beginning Mail Stop should be omitted from the address.

Effective January 14, 2005, except correspondence for Maintenance Fee payments, Deposit Account Replenishments (see 1.25(c)(4)), and Licensing and Review (see 37 CFR 5.1(c) and 5.2(c)), please address correspondence to be delivered by other delivery services (Federal Express (Fed Ex), UPS, DHL, Laser, Action, Purolater, etc.) as follows:

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Randolph Building
Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Qi Han whose telephone numbers is (571) 272-7604. The examiner can normally be reached on Monday through Thursday from 9:00 a.m. to 7:00 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil, can be reached on (571) 272-7602.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Inquiries regarding the status of submissions relating to an application or questions on the Private PAIR system should be directed to the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 703-305-3028 between the hours of 6 a.m. and midnight Monday through Friday EST, or by e-mail at: ebc@uspto.gov. For general information about the PAIR system, see <http://pair-direct.uspto.gov>.

QH/qh

September 28, 2006


RICHEMOND DORVIL
SUPERVISORY PATENT EXAMINER